

INCH-POUND

MIL-DTL-9177/1C(USAF)
25 November 2002
SUPERSEDING
MIL-C-9177/1B(USAF)
12 September 1988

DETAIL SPECIFICATION SHEET

CONNECTOR, AUDIO, AIRBORNE, PLUG, 4 CONTACT

This specification is approved for use by the Department of the Air Force and is available for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-C-9177.

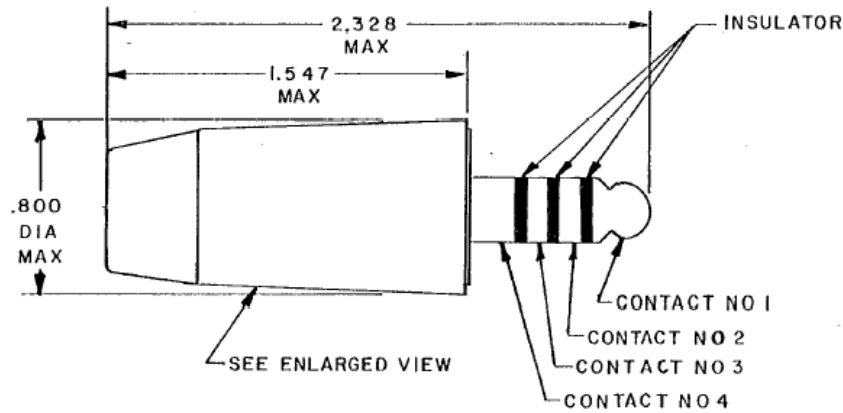
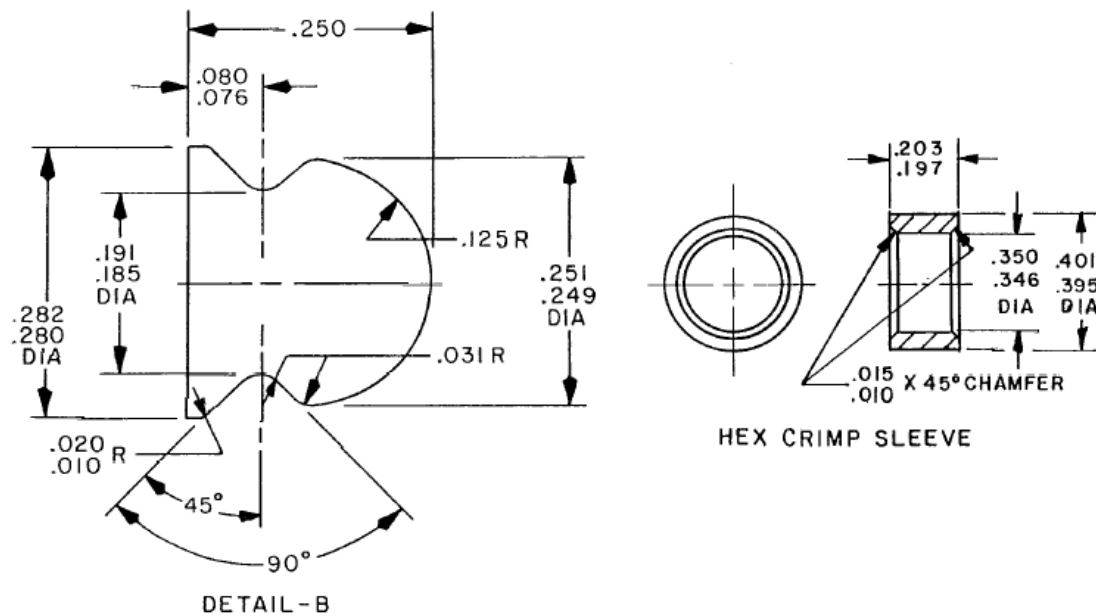


FIGURE 1. Dimensions and configurations.





| Inches | mm | Inches | mm | Inches | mm | Inches | mm |
|--------|-------|--------|------|--------|-------|--------|-------|
| .003 | 0.08 | .125 | 3.18 | .280 | 7.11 | .421 | 10.69 |
| .010 | 0.25 | .156 | 3.96 | .282 | 7.16 | .475 | 12.06 |
| .015 | 0.38 | .171 | 4.34 | .311 | 7.90 | .516 | 13.11 |
| .0156 | 0.396 | .185 | 4.70 | .313 | 7.95 | .547 | 13.89 |
| .020 | 0.51 | .191 | 4.85 | .318 | 8.08 | .582 | 14.78 |
| .031 | 0.79 | .197 | 5.00 | .346 | 8.79 | .598 | 15.19 |
| .0312 | 0.792 | .203 | 5.16 | .350 | 8.89 | .672 | 17.07 |
| .076 | 1.93 | .249 | 6.32 | .359 | 9.12 | .703 | 17.86 |
| .080 | 2.03 | .250 | 6.35 | .395 | 10.03 | .800 | 20.32 |
| .090 | 2.29 | .251 | 6.38 | .401 | 10.19 | 1.547 | 39.29 |
| .094 | 2.39 | .275 | 6.98 | .407 | 10.34 | 2.328 | 59.13 |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm).
4. All dimensions are after plating.
5. Undimensioned pictorial representations are for reference purposes only.

FIGURE 1. Dimensions and configurations – Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Crimp sleeve: The crimp sleeve requirement is applicable.

MIL-DTL-9177/1C(USAF)

Torque: The torque test is applicable.

Tool data: Use M22520/5-01 hand tool with crimp die M22520/5-29, M22520/5-35, or M22520/5-55.

Controlled drop: The controlled drop test is applicable.

Stack assembly: The stack assembly test is applicable.

Static load: The static load test is applicable.

Insertion and withdrawal forces: The insertion and withdrawal forces shall be as specified:

Insertion force: 13 pounds maximum.

Withdrawal force 6 pounds minimum, 10 pounds maximum.

Body, insulation and shell: Materials shall have electrical and non-electrical properties appropriate for their intended use in electrical components. Optional materials are as follows:

Body and insulation:

- a. Polyvinylidene fluoride.
- b. Glass-filled polycarbonates in accordance with MIL-P-81390.
- c. Glass-filled nylon in accordance with ASTM D4066.

Shell:

- a. Glass-filled nylon in accordance with ASTM D4066.
- b. Nylon zytel ST801.
- c. Polycarbonate in accordance with ASTM D3935.

Cable retention: The cable retention test is applicable. The test cable shall be WF-14/U. The force shall be 30 pounds minimum.

Specified mating connector: For testing, the specified mating connector shall be M9177/3-1.

Marking: Identification marking shall include both U-93A/U and the M9177/1-1 numbers.

Mating connectors: M9177/3-1, M9177/4-1, and M9177/5-1.

Part or Identifying Number (PIN): M9177/1 - 1.

Supersession data: M9177/1-1 supersedes U-93A/U.

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

CONCLUDING MATERIAL

Custodians:

Air Force – 11
DLA - CC

Preparing Activity:

DLA - CC

Review activities:

Air Force – 19, 99

(Project 5935-4436-000)